

**PUBLIC NOTICE**  
**Preparation of an Environmental Assessment**  
**Big Eddy 3-D Seismic Exploration**

Dawson Geophysical Company (Dawson) has filed a Notice of Intent (NOI) to conduct a 3-D vibroseis geophysical survey for the purpose of gathering subsurface geologic data for oil and gas exploration and engineering, proprietary to BOPCO, L.P. Geophysical exploration is a methodology that is used to define, through geologic subsurface mapping, oil and gas reservoirs. It is possible that the data for this project may be collected in Phases.

An Environmental Assessment (EA) will be required under the National Environmental Policy Act and Council for Environmental Quality regulations in order to assess the potential effects of the proposed geophysical exploration operation upon environmental resources in the project area.

The project area is located on federal, state, and private lands approximately 14 miles east of Carlsbad, New Mexico described as follows:

New Mexico Principal Meridian:

- T. 19S., R. 31E.: Section 20, 21, Sections 22 (W $\frac{1}{2}$ ), 25 through 27, 28 (SAE S $\frac{1}{2}$ SW $\frac{1}{4}$ ), 29, 31, 33 (SAE N $\frac{1}{2}$ NW $\frac{1}{4}$ ), 34, and 35;
- T. 19S., R. 33E.: Section 33 (S $\frac{1}{2}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ ), 34 (S $\frac{1}{2}$ S $\frac{1}{2}$ );
- T. 20S., R. 28E.: Section 35 (E $\frac{1}{2}$ NW $\frac{1}{4}$ , E $\frac{1}{2}$ SW $\frac{1}{4}$ , E $\frac{1}{2}$ );
- T. 20S., R. 29E.: Section 31 through 34;
- T. 20S., R. 30E.: Section 01, 12, 13, 21 through 28, 33 through 35;
- T. 20S., R. 31E.: Section 01, 03 through 12, 13 (SAE NW $\frac{1}{4}$ SE $\frac{1}{4}$ ), 14, 15, 17 through 31, 33 through 35;
- T. 20S., R. 32E.: Section 05, through 07, 08 (SAE E $\frac{1}{2}$ NE $\frac{1}{4}$  and NE $\frac{1}{4}$ SE $\frac{1}{4}$ ), 09 (W $\frac{1}{2}$ ), 12 (SAE SE $\frac{1}{4}$ ), 14, 15, 17, 18 (W $\frac{1}{2}$ NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ , SE $\frac{1}{4}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ ), 19 through 24, 25 (SAE SE $\frac{1}{4}$ ), 28 through 31, 33 through 35;
- T. 20S., R. 33E.: Section 03, 04 (N $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ SW $\frac{1}{4}$ ), 05, 07 through 09, 17 (N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ ), 19 (SAE W $\frac{1}{2}$ NE $\frac{1}{4}$ ), 20, 21 (NW $\frac{1}{4}$ ), 28 (W $\frac{1}{2}$ ), 29, 30, (NW $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ ), 31 (S $\frac{1}{2}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ SE $\frac{1}{4}$ ), 33, 34;
- T. 21S., R. 27E.: Section 01 (SAE Lots 7, 9, 10, and 11), 12, 24 (NE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ );
- T. 21S., R. 28E.: Section 01 (Lots 13, 14, 15, 16, and I through P), Sections 03, 04 (SAE 14, 15, 16, and I), 05 through 15, 17 (N $\frac{1}{2}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ ), 18 (SAE NW $\frac{1}{4}$ ), 19 (SAE W $\frac{1}{2}$ SW $\frac{1}{4}$ ), 20 (S $\frac{1}{2}$ SE $\frac{1}{4}$ ), 21 through 28, 29 (SAE N $\frac{1}{2}$ NW $\frac{1}{4}$ ), 30 (SAE SW $\frac{1}{4}$ SW $\frac{1}{4}$ ), 31 (W $\frac{1}{2}$ NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ ), 32 (N $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NW $\frac{1}{4}$ ), 33 through 35;
- T. 21S., R. 29E.: Section 01, 03, 04, 05 (Lots 1, 2, 7 through 12, and I through P), 06 (Lots 13 through 16, and I through P), 07 through 10, 11 (SAE SW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$ ), 12, 13 (E $\frac{1}{2}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ ), 14 (SW $\frac{1}{4}$ , S $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ NE $\frac{1}{4}$ ), 15, 17, 18 (SAE SE $\frac{1}{4}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ ), 19 through 24, 25 (N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ ), 26 through 31, 33 through 35;
- T. 21S., R. 30E.: Section 01, 03 through 07, 08 (SAE NW $\frac{1}{4}$ NW $\frac{1}{4}$ ), 09 through 12, 13 (N $\frac{1}{2}$ ), 14 (NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , W $\frac{1}{2}$ NE $\frac{1}{4}$ , NE $\frac{1}{4}$ NE $\frac{1}{4}$ ), 15, 17 through 19, 20 (SAE NE $\frac{1}{4}$ SE $\frac{1}{4}$ ), 21 (W $\frac{1}{2}$ ), 23 (S $\frac{1}{2}$ ), 24 (E $\frac{1}{2}$ , SW $\frac{1}{4}$ ), 25, 26, 27 (S $\frac{1}{2}$ ), 29 through 31, 33 through 35;
- T. 21S., R. 31E.: Section 03, 04 (SAE I through P), 05 through 11, 12 (SAE NW $\frac{1}{4}$ ), 15, 17 (NW $\frac{1}{4}$ , SE $\frac{1}{4}$ , E $\frac{1}{2}$ NE $\frac{1}{4}$ , NW $\frac{1}{4}$ NE $\frac{1}{4}$ ), 19 (W $\frac{1}{2}$ , SE $\frac{1}{4}$ ), 20 (E $\frac{1}{2}$ , SW $\frac{1}{4}$ ), 21, 28 through 31, 33;

T. 21S., R. 32E.: Section 02 (W $\frac{1}{2}$ ), 03 through 05, 06 ( H, I, J, O, P), 07 through 10, 11 (W $\frac{1}{2}$ ), 14 (W $\frac{1}{2}$ ), 15, 21 (N $\frac{1}{2}$ ), 22 (N $\frac{1}{2}$ ), 23 (NW $\frac{1}{4}$ );

T. 22S., R. 27E.: Section 01 (SE $\frac{1}{4}$ NE $\frac{1}{4}$ ), 11 ( NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ ), 12 (E $\frac{1}{2}$ , SE $\frac{1}{4}$ NW $\frac{1}{4}$ ), 13 (E $\frac{1}{2}$ );

T. 22S., R. 28E.: Section 01, 03 through 05, 06 ( E $\frac{1}{2}$ , E $\frac{1}{2}$ NW $\frac{1}{4}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ ), 07 ( W $\frac{1}{2}$ NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ ), 08 ( SAE W $\frac{1}{2}$ NW $\frac{1}{4}$ , W $\frac{1}{2}$ SW $\frac{1}{4}$ ), 09 through 14, 15 ( NE $\frac{1}{4}$ , E $\frac{1}{2}$ SE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ), 17, 18, 22 ( E $\frac{1}{2}$ NE $\frac{1}{4}$ ), 23 through 26, 27 (E $\frac{1}{2}$ ), 35;

T. 22S., R. 29E.: Section 01 (SAE SE $\frac{1}{4}$ NE $\frac{1}{4}$ , SW $\frac{1}{4}$ SE $\frac{1}{4}$ ), Section 03 through 10, 11 ( SAE S $\frac{1}{2}$ NW $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ , N $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ , S $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$ ), 12, 14, 15, 17 through 23, 26 ( SAE E $\frac{1}{2}$ NW $\frac{1}{4}$ , NE $\frac{1}{4}$ ), 27 through 31, 33 through 35;

T. 22S., R. 30E.: Section 01, 03, 06, 07, 10 ( SAE SW $\frac{1}{4}$ NW $\frac{1}{4}$ , NW $\frac{1}{4}$ SW $\frac{1}{4}$ ), 11, 12;

T. 22S., R. 31E.: Section 04, 05 ( N $\frac{1}{2}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , N $\frac{1}{2}$ SW $\frac{1}{4}$ ), 06 through 09;

T. 23S., R. 29E.: Section 03 (N $\frac{1}{2}$ ), 04 (N $\frac{1}{2}$ ), 05 (N $\frac{1}{2}$ ), 06.

Through the scoping process for the Environmental Assessment, the Bureau of Land Management will identify and address any impacts to critical environmental resources including, but not limited to cultural resources, wildlife, cave and karst resources, soils, noxious and undesirable weeds, visual resource management, off highway vehicle management, and recreation.

The BLM Carlsbad Field Office must receive comments concerning the proposed geophysical exploration project in writing by the close of business on December 13, 2010.

Please address questions concerning the proposal or the Environmental Assessment, comments on the scope of the Environmental Assessment, and requests to receive a copy of the Environmental Assessment to:

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